

FIG. 5A

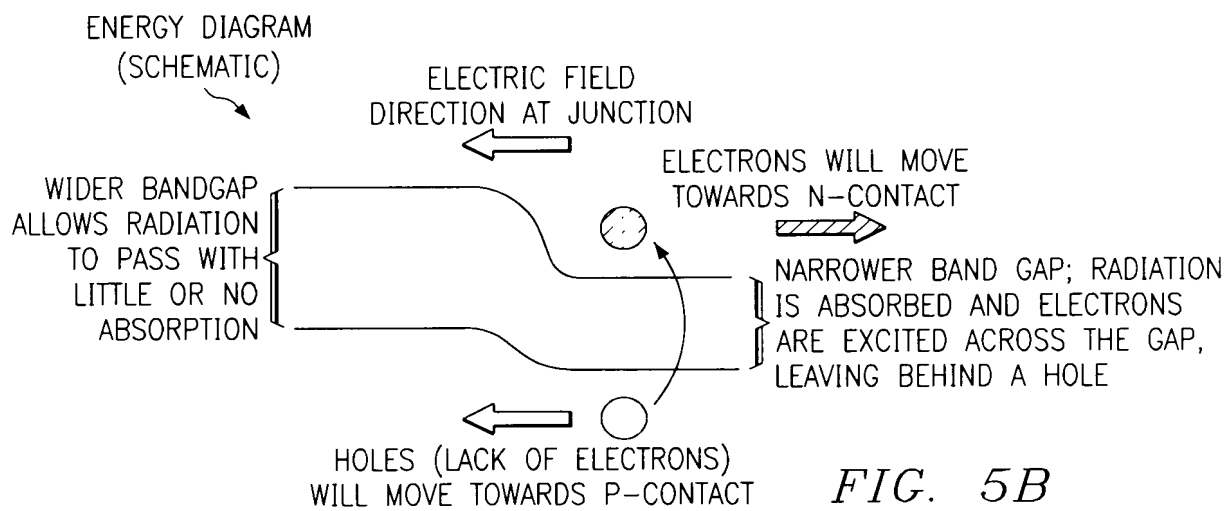
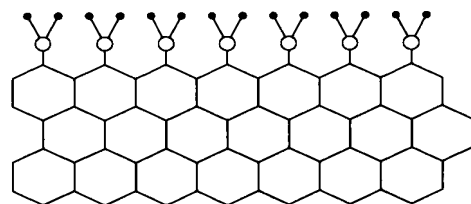


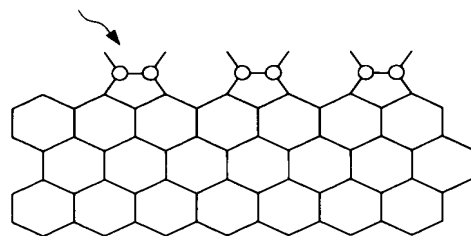
FIG. 5B



• HYDROGEN ATOM
 ○ Si SURFACE ATOM

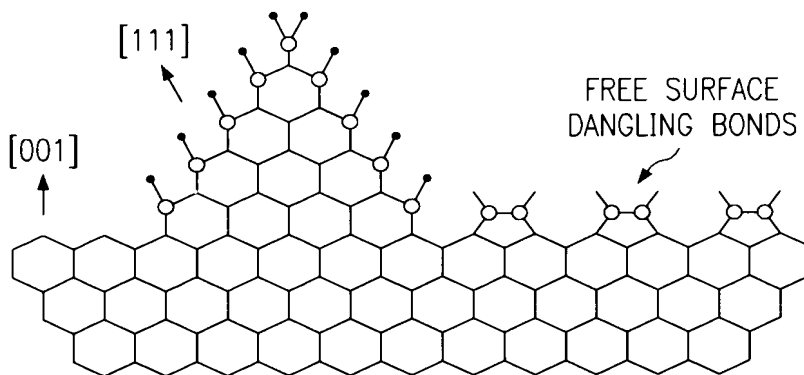
FIG. 6

FREE SURFACE
DANGLING BONDS



○ Si SURFACE ATOM

FIG. 7



• HYDROGEN ATOM
○ Si SURFACE ATOM

FIG. 8

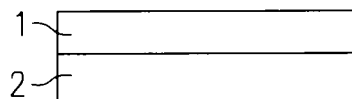


FIG. 9A

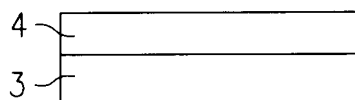


FIG. 9B

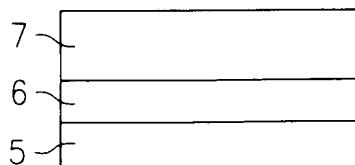
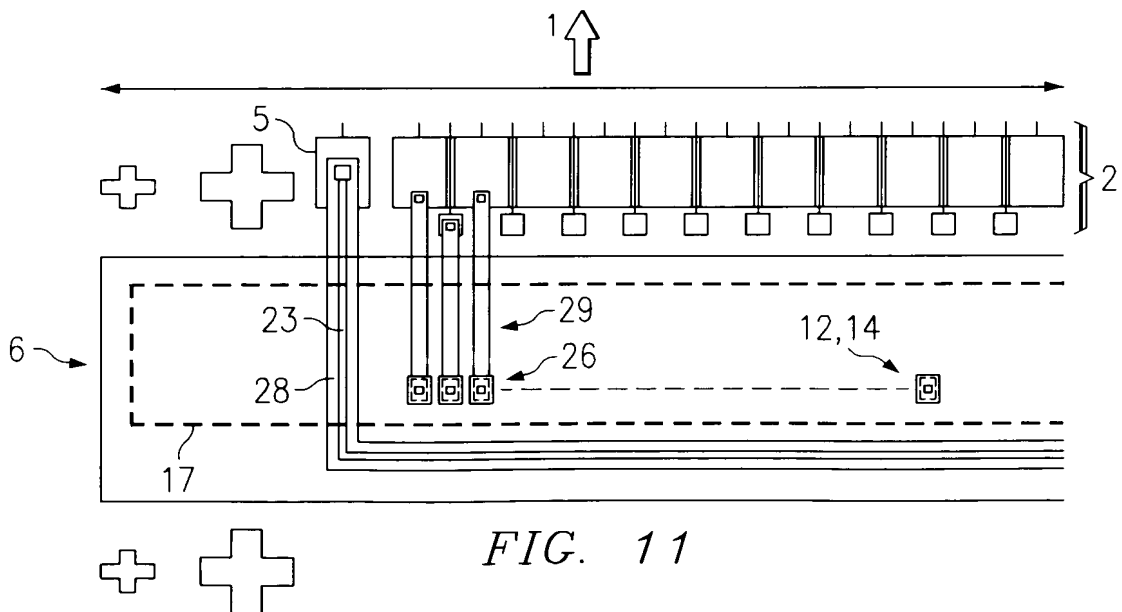
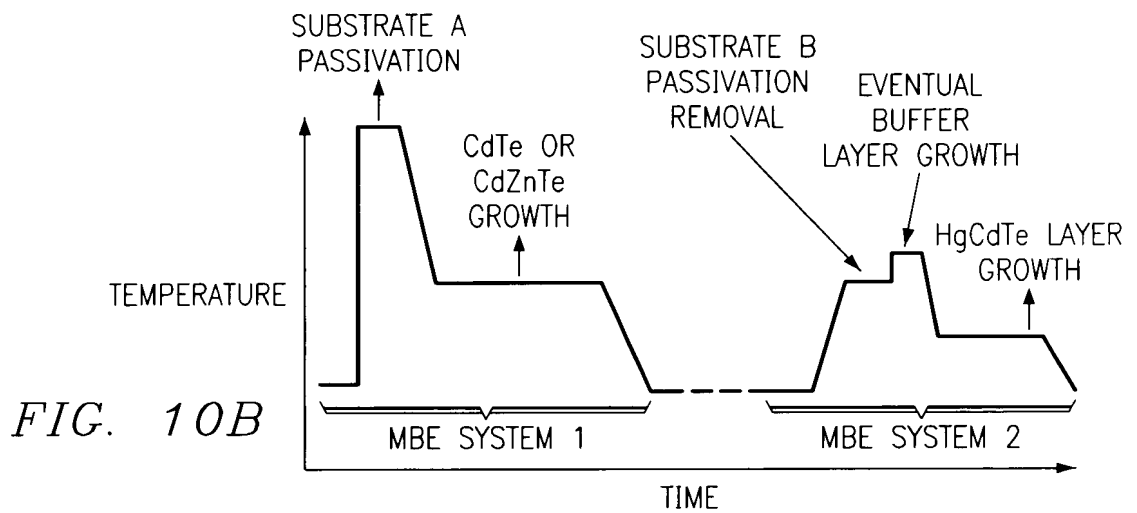
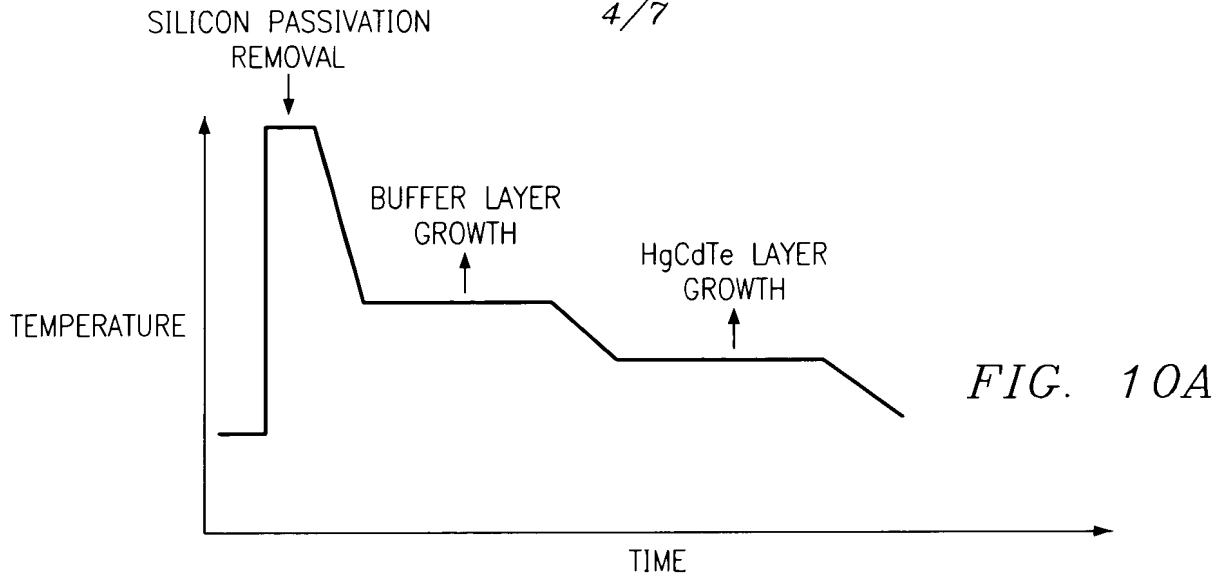
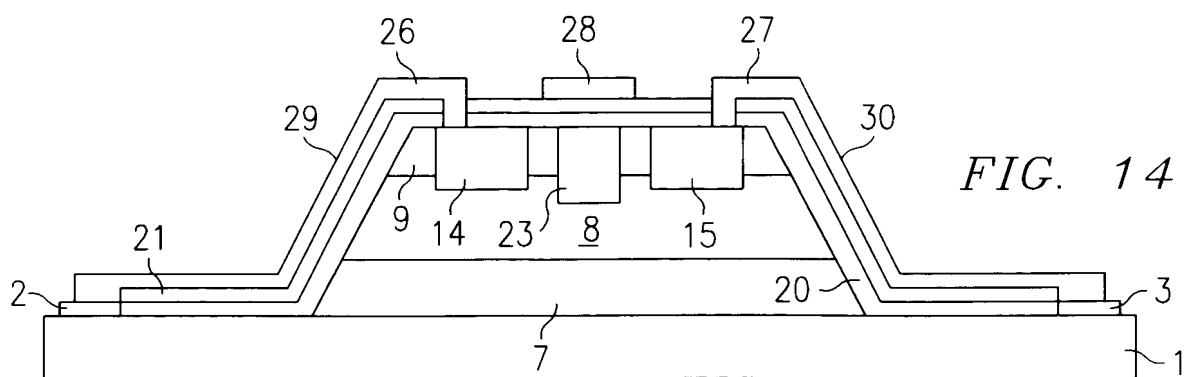
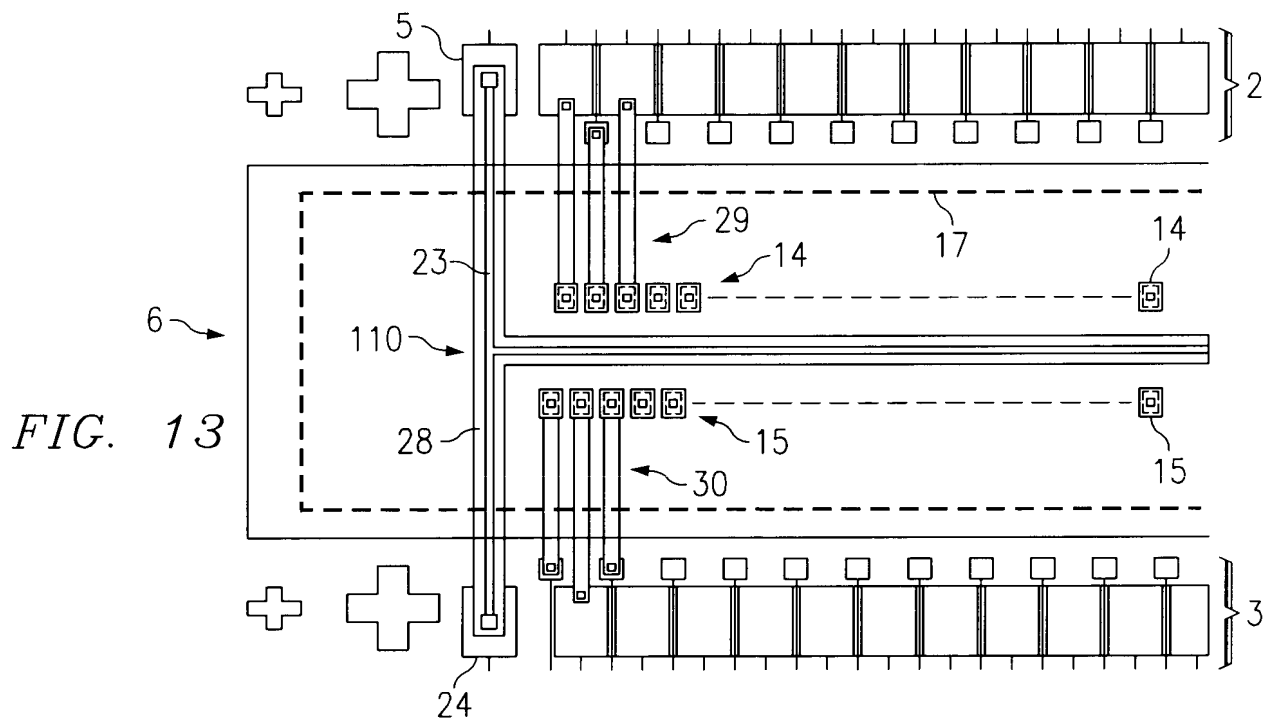
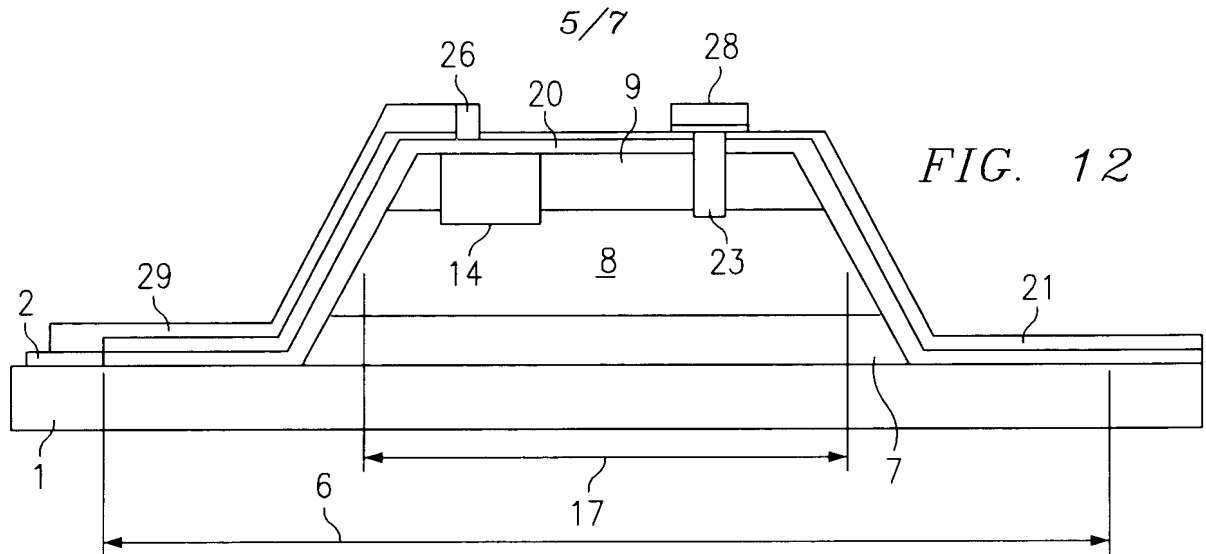


FIG. 9C

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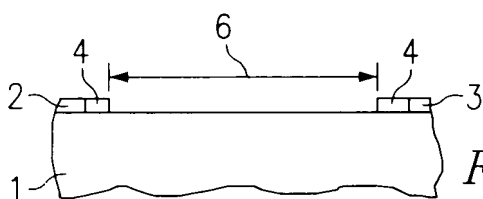


FIG. 15A

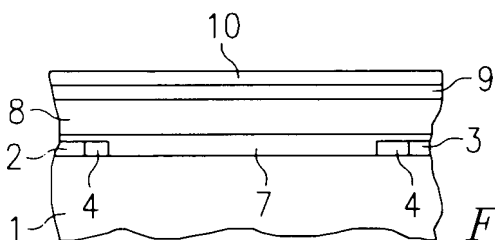


FIG. 15B

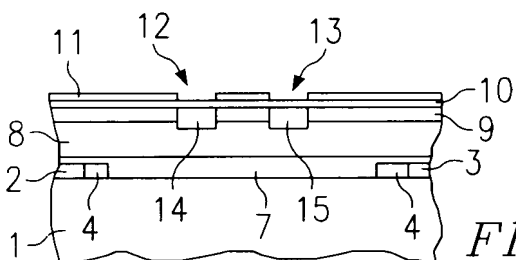


FIG. 15C

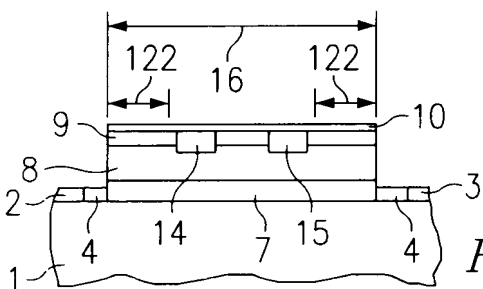


FIG. 15D

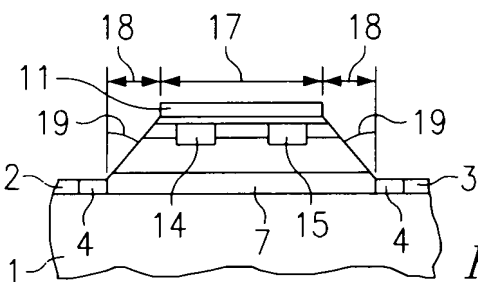


FIG. 15E

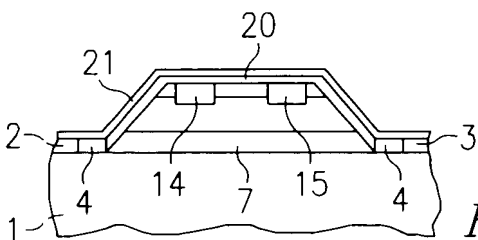


FIG. 15F

FIG. 15G

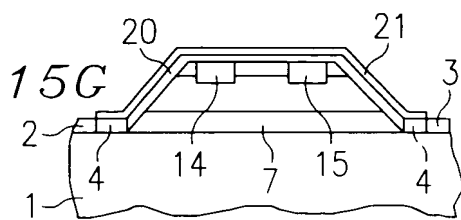


FIG. 15H

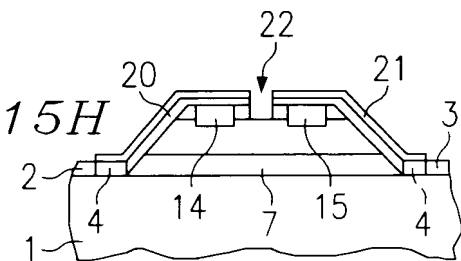


FIG. 15I

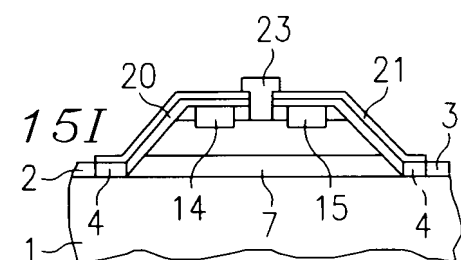


FIG. 15J

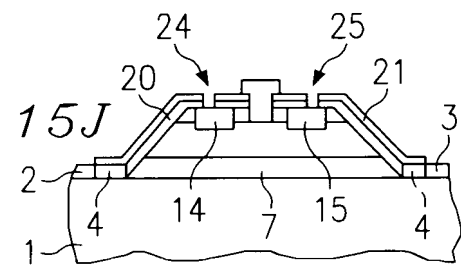


FIG. 15K

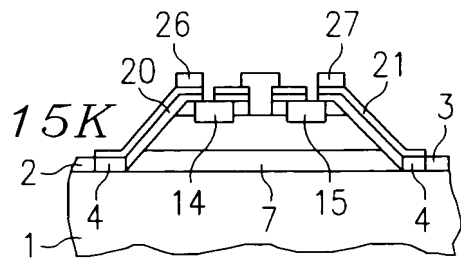
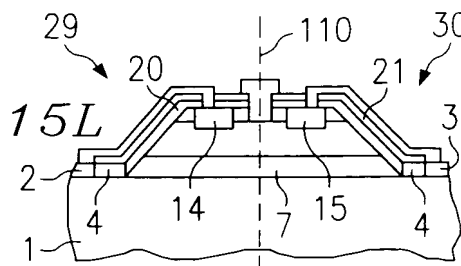


FIG. 15L



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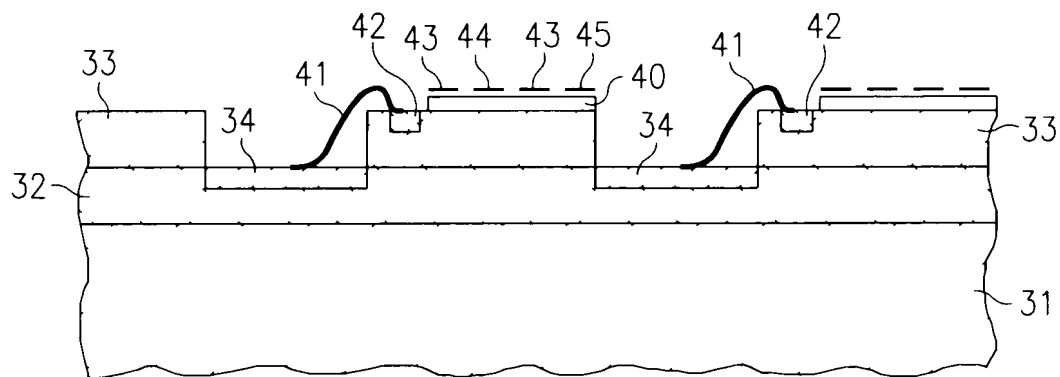


FIG. 16
(PRIOR ART)

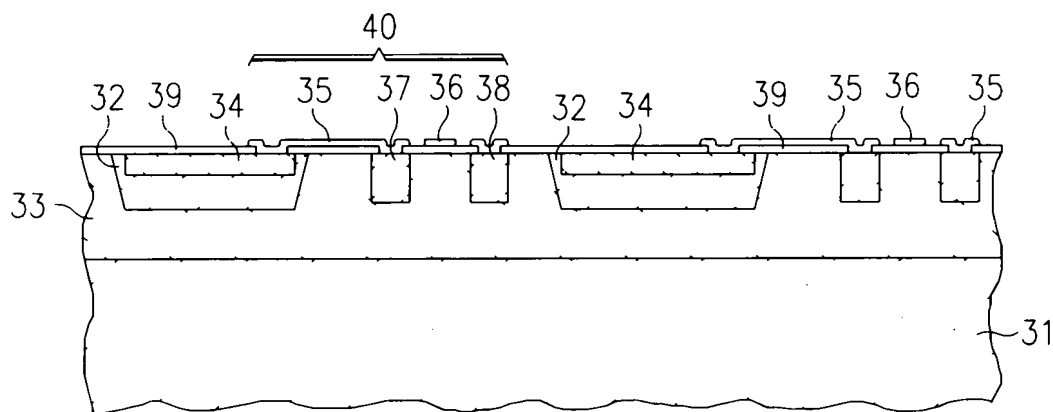


FIG. 17
(PRIOR ART)

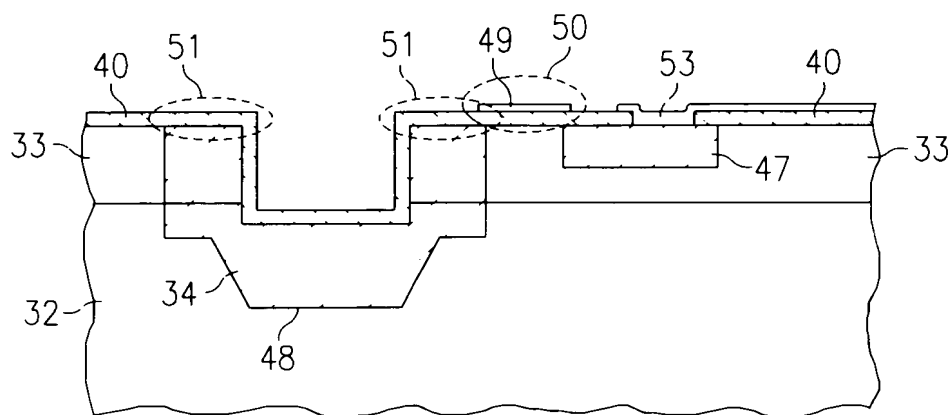


FIG. 18
(PRIOR ART)